

Quick Reference Insecticide Spray Guide: Corn

Pesticide active ingredient	Product brand name examples	Mode of action	Reentry interval (hours)	Preharvest interval (days)	Target pests†												Effects on natural enemies‡	
					Chinch bug	Fall armyworm	Corn rootworm	Cutworm	European corn borer	Flea beetle	Grasshopper	Seed corn maggot	Southwestern corn borer	Green and southern green stink bug	Brown stink bug	Wireworm		Fire ant
permethrin	Ambush	3	12	before brown silk	+++	++		+++	++		+++		++	++				M
esfenvalerate	Asana XL	3	12	21	+++	++		+++	++		+++		++	+++	++			M
imidacloprid	Axcess, Senator	4A	12	seed			++					+++				++	++	S
cyfluthrin + tebufos	Aztec, Defcon	3+1B	48	0	++		++	++				+++						H
beta-cyfluthrin	Baythroid XL	3	12	21	+++	++		+++	++	++	+++		++	+++	++			H
flubendiamide	Belt	28	12	28		+++			+++				+++					M
chlorpyrifos + lambda-cyhalothrin	Cobalt	1B+3	24	21	+++	++		+++	+++	++	+++		+++	+++	++			M
terbufos	Counter	1B	48	30	++		++			++		+++				++		H
thiamethoxam	Cruiser	4A	0	seed	+		++					+++				++	++	S
bifenthrin	Discipline, Fanfare, Brigade	3	12	30	+++	++		+++	+++	++	+++		+++	+++	+++			S
tefluthrin	Force	3	0	30	+		++	++				++						S
zeta-cypermethrin + bifenthrin	Hero	3+3	12	30	+++	++			+++	++	+++		+++	+++	+++			M-S
methoxyfenozide	Intrepid	18A	4	21					+++				+++					L
lambda-cyhalothrin	Karate, Silencer, Lambda-Cy	3	24	21	+++	++		+++	++	++	+++		++	+++	++			M
methomyl	Lannate	1A	48	21	+	+++		++	+		++		+					H
chlorpyrifos	Lorsban	1B	24	21	+++	++	++	+++	++		++	+++	++				+++	M
zeta-cypermethrin	Mustang Max, Respect	3	12	30	+++	++		+++	++	++	+++		++	+++	++			M
clothianidin	Poncho	4a	0	seed	+		++					+++				++	++	S
permethrin	Pounce, Perm-UP	3	12	before brown silk	+++	++		+++	++	++	+++		++	++				M
chlorantraniliprole	Prevathon	28	4	21		+++			+++				+++					M
gamma-cyhalothrin	Prolex, Declare	3	24	21	+++	++		+++	++	++	+++		++	+++	++			S
fipronil	Regent	2B	0	90	++		++		++			++	++					M
carbaryl	Sevin	1A	12	14	+	++		++	+	+++	++		+					S
phorate	Thimet, Phorate	1B	48	30			++					+						H

† Level of control of target pest: no observed control (), low levels of pest suppression (+), short-term control (++) or good control (+++).
 ‡ Effects on natural enemies: low (L), slight (S), moderate (M) or high (H) toxicity.

Adapted from: Studebaker, G., J. Carson, J.D. Hopkins, K. Loftin, G. Lorenz, P. Spradley, and J. Zawislak. 2013. Insecticide recommendations for Arkansas. University of Arkansas Cooperative Extension Services: Little Rock.

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Always read and follow directions on the pesticide label. The University of Missouri intends no endorsement of products named here nor criticism of similar products that are not mentioned.